

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480606

Luminaire Tested: **IFLD-L-SA8C-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480606
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

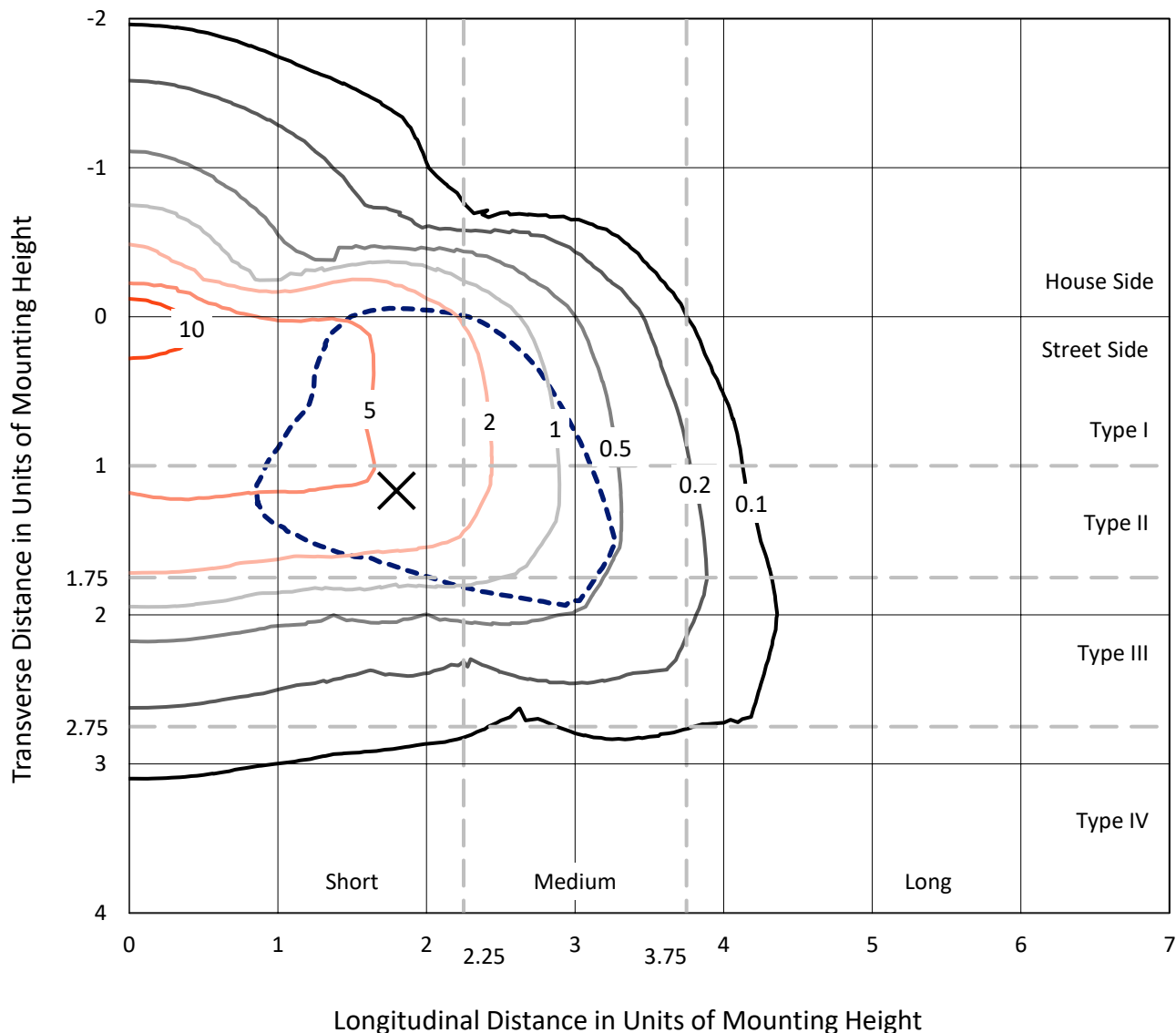
Lumens per Lamp: N/A
Luminaire Lumens: 51136.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

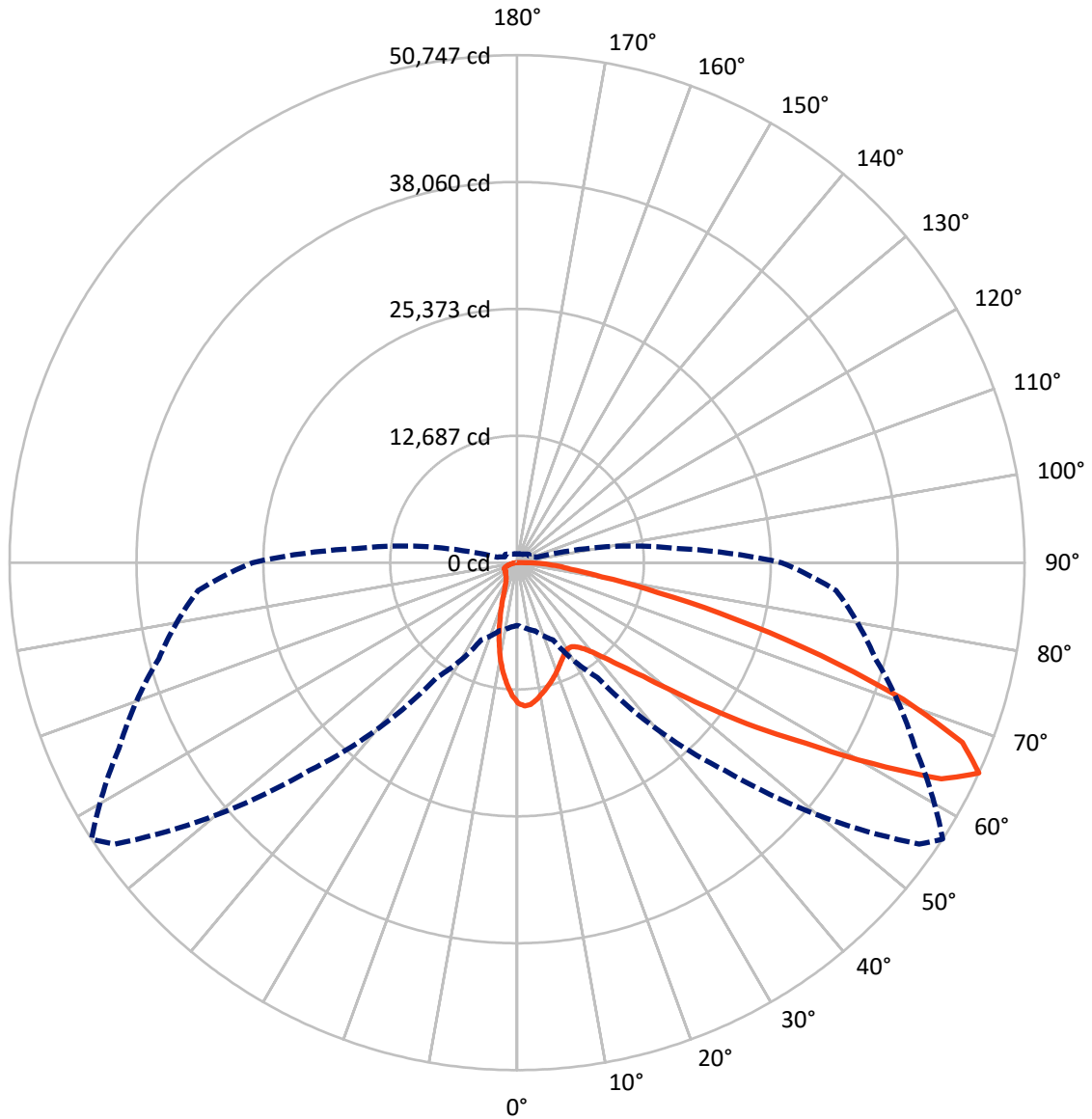
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7842.2	0.0	7842.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	43294.0	0.0	43294.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	51136.3	0.0	51136.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1177.6	2.3
10°-20°	2534.3	5.0
20°-30°	3276.6	6.4
30°-40°	4409.3	8.6
40°-50°	7030.8	13.7
50°-60°	12418.0	24.3
60°-70°	13661.5	26.7
70°-80°	5714.8	11.2
80°-90°	913.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51136.3	100.0
0°-180°	51136.3	100.0

Coefficient of Utilization



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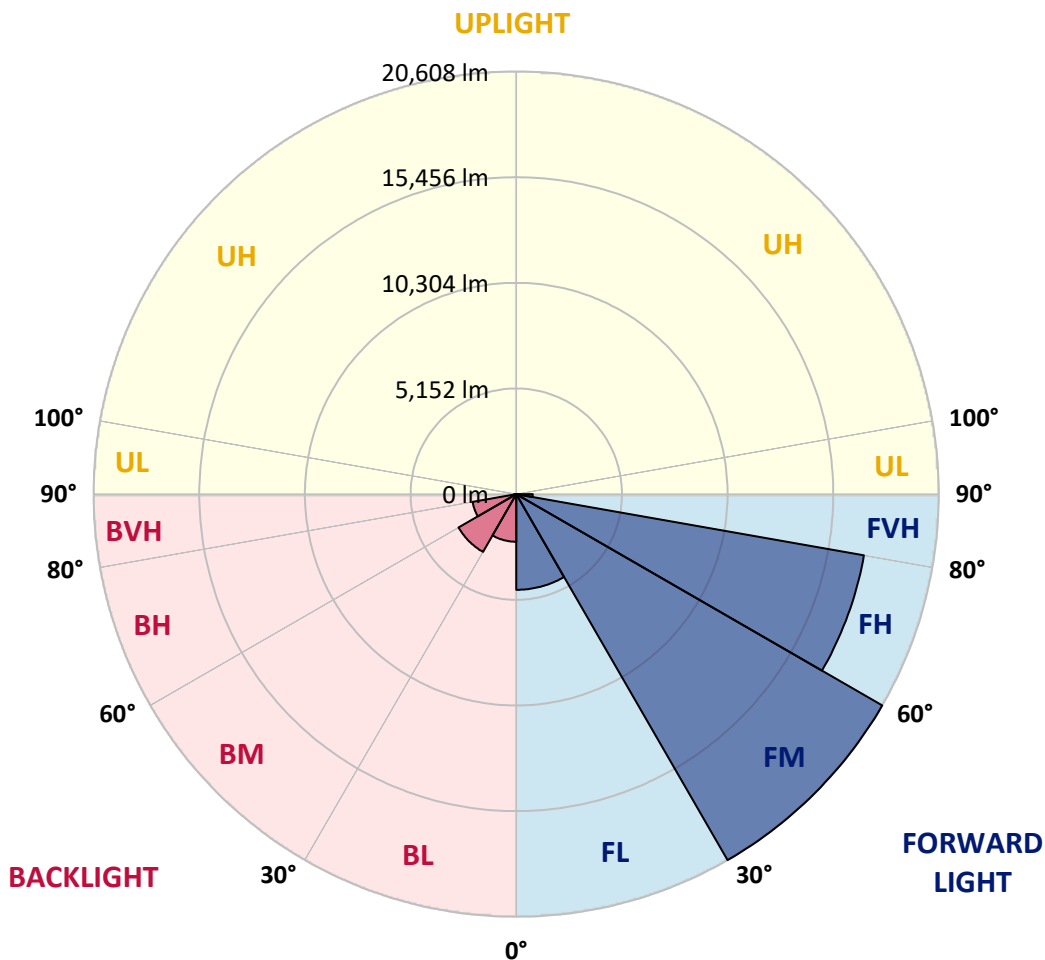
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4666.0	9.1			
FM (30°-60°)	20607.8	40.3			
FH (60°-80°)	17214.0	33.7			G5
FVH (80°-90°)	806.2	1.6			G5
BL (0°-30°)	2322.5	4.5	B3/2500		
BM (30°-60°)	3250.2	6.4	B3/5000		
BH (60°-80°)	2162.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	107.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7
2.5°	14441.5	14464.5	14464.5	14510.5	14355.2	14430.0	14418.5	14349.4	14372.4	14251.6	14130.8
5°	14033.0	14015.7	14107.8	14119.3	14240.1	14274.6	14303.4	14257.4	14268.9	14004.2	13889.1
7.5°	12985.8	12980.1	13135.4	13267.8	13520.9	13756.8	13912.2	13866.1	13929.4	13762.6	13492.1
10°	11743.1	11875.4	12036.5	12168.8	12634.9	12934.0	13336.8	13377.1	13618.7	13578.4	13089.4
12.5°	10811.0	10868.5	10989.3	11369.1	11794.8	12289.6	12865.0	12916.8	13152.7	13267.8	12842.0
15°	10045.7	10097.5	10252.9	10534.8	11012.3	11599.2	12329.9	12462.3	12934.0	12974.3	12519.8
17.5°	9487.7	9527.9	9631.5	9913.4	10304.7	11058.4	11748.8	11984.7	12606.1	12801.7	12186.1
20°	9269.0	9182.7	9240.2	9418.6	9809.9	10391.0	11282.8	11489.9	12283.9	12669.4	11869.6
22.5°	9171.2	9096.4	9130.9	9119.4	9430.1	9844.4	10782.2	11000.8	11979.0	12514.0	11587.7
25°	9246.0	9246.0	9211.5	9182.7	9217.2	9487.7	10241.4	10580.8	11570.4	12381.7	11300.0
27.5°	9648.8	9493.4	9510.7	9389.8	9355.3	9355.3	9999.7	10201.1	11438.1	12306.9	11064.1
30°	9907.7	9982.5	9988.2	9809.9	9631.5	9309.3	9775.3	9971.0	11328.8	12399.0	10926.0
32.5°	10569.3	10534.8	10437.0	10402.5	10137.8	9775.3	9884.6	10017.0	11265.5	12606.1	10966.3
35°	11231.0	11213.7	11219.5	11202.2	10926.0	10391.0	10178.1	10356.4	11380.6	12968.6	11104.4
37.5°	11915.7	11961.7	12157.3	12157.3	11863.9	11282.8	11000.8	10949.1	11800.6	13561.2	11432.4
40°	12600.3	12715.4	12962.8	13354.1	12939.8	12399.0	11944.4	11863.9	12306.9	14355.2	12220.6
42.5°	13256.2	13446.1	13935.2	14516.3	14378.2	13837.4	13233.2	13141.2	13348.3	15534.7	13319.5
45°	14096.3	14257.4	15028.3	15920.2	16110.0	15632.5	14924.8	14850.0	14838.5	17260.7	14832.7
47.5°	15373.6	15546.2	16317.1	17214.7	17801.6	17876.4	17082.4	17001.8	16725.7	19590.9	17047.9
50°	16973.1	17255.0	17905.1	18952.3	19803.8	20603.6	20379.2	20143.3	19602.4	22300.9	19855.6
52.5°	18141.0	18486.2	19366.5	20707.1	22208.8	23480.4	24285.9	24285.9	23043.1	25275.5	23233.0
55°	18451.7	18658.9	19769.3	21708.3	24280.1	27496.4	29182.2	29055.6	27139.6	28405.4	27162.6
57.5°	17214.7	17485.1	18831.5	20862.5	25367.5	31253.4	34043.9	34072.7	31615.9	32041.7	31040.6
60°	13808.6	13894.9	15482.9	18198.6	24320.4	34279.8	40683.6	40792.9	36707.8	35280.9	33014.0
62.5°	9545.2	9821.4	11018.1	13400.1	20149.0	33940.4	47087.3	47628.1	40787.1	36989.8	33324.7
65°	6282.9	6449.8	7088.4	8538.3	14027.2	29418.0	49078.0	50746.6	43905.6	37087.6	32024.4
67.5°	4556.8	4585.6	4775.5	5523.4	8429.0	21155.9	45677.7	48030.9	45073.5	36270.6	28975.0
70°	3682.3	3705.3	3774.3	4251.9	5442.9	13239.0	37254.4	40942.5	41569.6	32398.4	23336.5
72.5°	2991.9	3020.6	3106.9	3555.7	4487.8	7364.6	27243.2	31736.7	33813.8	23969.4	15511.6
75°	2353.2	2376.2	2583.4	3026.4	4217.4	5057.4	18072.0	22473.5	22755.4	14010.0	7261.0
77.5°	1611.0	1651.3	1904.4	2566.1	3970.0	4424.5	11265.5	14395.5	12916.8	5483.2	2497.1
80°	1024.1	1081.7	1231.3	1944.7	3509.7	4223.1	7007.9	8595.8	5655.8	1875.7	1202.5
82.5°	604.1	661.7	811.3	1260.0	2756.0	3918.2	4936.6	5379.6	2652.4	960.8	725.0
85°	333.7	374.0	489.1	759.5	1616.8	3480.9	3952.7	3860.7	1518.9	512.1	454.5
87.5°	109.3	126.6	178.4	304.9	667.4	1639.8	2370.5	2226.6	788.2	235.9	178.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7	14061.7
2.5°	14050.2	14033.0	13774.1	13578.4	13244.7	12968.6	12859.2	12709.7	12703.9	12594.6	12565.8
5°	13710.8	13532.4	13135.4	12755.7	12163.1	11766.1	11403.6	11150.4	11046.9	10822.5	10770.7
7.5°	13273.5	13037.6	12427.7	11714.3	11018.1	10396.7	9832.9	9269.0	8952.6	8843.3	8722.4
10°	12819.0	12404.7	11501.4	10701.7	9729.3	8774.2	7888.2	7094.2	6662.6	6357.7	6225.4
12.5°	12456.5	11904.2	10753.4	9556.7	8273.6	6996.4	5966.5	5132.2	4643.1	4413.0	4309.4
15°	12048.0	11317.3	9936.4	8423.2	6823.7	5373.8	4367.0	3711.1	3515.4	3406.1	3388.9
17.5°	11616.5	10770.7	9050.4	7307.0	5408.4	4044.8	3394.6	3129.9	3043.6	2997.6	2974.6
20°	11213.7	10281.6	8141.3	6064.3	4234.6	3245.0	2940.1	2802.0	2796.2	2819.3	2813.5
22.5°	10644.1	9643.0	7243.8	4913.6	3383.1	2825.0	2629.4	2594.9	2629.4	2658.2	2669.7
25°	10321.9	9119.4	6242.6	3900.9	2796.2	2508.6	2445.3	2433.8	2485.5	2520.1	2514.3
27.5°	9988.2	8578.6	5310.6	3124.2	2451.0	2284.2	2272.7	2284.2	2336.0	2387.7	2382.0
30°	9729.3	8147.1	4436.0	2612.1	2186.4	2123.1	2111.6	2123.1	2151.8	2157.6	2157.6
32.5°	9516.4	7635.0	3693.8	2266.9	2025.3	1973.5	1985.0	1979.2	1985.0	1990.7	1996.5
35°	9389.8	7330.1	3083.9	2054.0	1892.9	1852.7	1846.9	1829.6	1835.4	1841.1	1835.4
37.5°	9660.3	7180.5	2600.6	1904.4	1800.9	1766.3	1754.8	1743.3	1726.1	1726.1	1726.1
40°	10068.8	7099.9	2307.2	1806.6	1731.8	1691.6	1657.0	1645.5	1645.5	1651.3	1657.0
42.5°	10880.0	7232.2	2105.8	1731.8	1645.5	1599.5	1565.0	1570.7	1588.0	1605.2	1593.7
45°	12053.7	7635.0	2013.8	1674.3	1593.7	1530.5	1507.4	1501.7	1518.9	1547.7	1570.7
47.5°	13590.0	8262.1	1979.2	1622.5	1559.2	1472.9	1444.1	1461.4	1484.4	1524.7	1507.4
50°	16104.3	9671.8	2008.0	1576.5	1507.4	1444.1	1409.6	1392.4	1409.6	1438.4	1449.9
52.5°	19389.6	12232.1	2117.3	1553.5	1472.9	1421.1	1363.6	1334.8	1352.1	1375.1	1375.1
55°	23319.3	15730.3	2422.3	1524.7	1415.4	1386.6	1323.3	1265.8	1277.3	1277.3	1271.5
57.5°	26782.9	18371.2	2784.7	1484.4	1380.9	1340.6	1260.0	1191.0	1179.5	1185.2	1191.0
60°	28336.4	19073.1	2957.3	1472.9	1380.9	1283.0	1173.7	1104.7	1087.4	1075.9	1075.9
62.5°	28066.0	17859.1	2606.4	1421.1	1415.4	1237.0	1093.2	1018.4	995.4	972.4	978.1
65°	26431.9	16127.3	2054.0	1352.1	1421.1	1208.3	1012.6	937.8	897.6	868.8	863.0
67.5°	23445.8	13768.3	1628.3	1300.3	1363.6	1156.5	943.6	857.3	822.8	794.0	782.5
70°	18342.4	10793.7	1415.4	1231.3	1225.5	1029.9	863.0	788.2	736.5	701.9	701.9
72.5°	11892.6	6823.7	1214.0	1093.2	1058.7	863.0	748.0	701.9	661.7	632.9	632.9
75°	5385.3	3170.2	978.1	914.8	863.0	690.4	632.9	609.9	575.4	546.6	546.6
77.5°	1933.2	1352.1	730.7	719.2	644.4	535.1	512.1	494.8	471.8	443.0	443.0
80°	1081.7	857.3	546.6	523.6	448.8	397.0	368.2	368.2	356.7	339.5	333.7
82.5°	684.7	558.1	402.8	351.0	293.4	264.7	253.2	247.4	241.7	218.6	212.9
85°	431.5	379.7	264.7	207.1	172.6	132.3	126.6	120.8	109.3	97.8	97.8
87.5°	195.6	218.6	103.6	63.3	46.0	28.8	17.3	5.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)